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PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

456

Application Number

10/730,388

Filing Date

December 07, 2003

First Named Inventor

Buxton, et al.

Art Unit

2863

Examiner Name

Khuu, Cindy D.

Attorney Docket Number

TAI.0800

ENCLOSURES (Check all that apply)

Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/
Incomplete ApplicationReply to Missing Parts
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a
Provisional ApplicationPower of Attorney, Revocation
Change of Correspondence Address

Terminal Disclaimer



Request for Refund



CD, Number of CD(s) _____

☐ Landscape Table on CD

After Allowance Communication to TC

Appeal Communication to Board
of Appeals and InterferencesAppeal Communication to TC
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please identify
below):**Remarks**

Credit Card Payment Form, Form PTO/SS/08A, References (34 @ 441pp)

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name

Noblitt & Gilmore, LLC

Signature

Printed name

Daniel J. Noblitt

Date

06 NOV 2006

Reg. No.

35,969

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or printed name

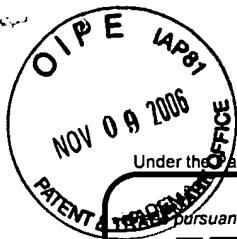
Hannah E. Watts

Date

11/06/06

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PTO/SB/17 (07-06)

Approved for use through 01/31/2007. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.

Pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2006

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/730,388
Filing Date	December 07, 2003
First Named Inventor	Buxton, et al.
Examiner Name	Khuu, Cindy D.
Art Unit	2863
Attorney Docket No.	TAI.0800

METHOD OF PAYMENT (check all that apply)☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☒ Deposit Account Deposit Account Number: 50-2993 Deposit Account Name: Noblitt & Gilmore, LLC

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
_____ - 20 or HP = _____	x _____	= _____		Fee (\$) Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
_____ - 3 or HP = _____	x _____	= _____	

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	/ 50 = _____	(round up to a whole number) x _____	= _____	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Information Disclosure Statement **Fees Paid (\$)** 180.00**SUBMITTED BY**

Signature

Registration No. 35,969
(Attorney/Agent)

Telephone 480-994-9859

Name (Print/Type) Daniel J. Noblitt

Date 06 Nov 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE

Inventor: Buxton, et al. Docket No.: TAI.0800
Serial No.: 10/730,388 Examiner: Khuu, Cindy D.
Filing Date: December 07, 2003 Art Unit: 2863
Title: Methods and Apparatus for Data
Analysis

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Commissioner:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and pursuant to 37 C.F.R. §§1.97-1.98, the reference or references listed and identified on the attached PTO/SB/08-based form are being submitted for consideration by the Examiner.

The applicant further provides the following information for which no written references are possessed:

- KLA-Tencor may have products known as Integrator or Navigator in the field of testing that may be relevant;
- The company Electroglas may have products in the field of testing that may be relevant;
- The company Knights Technology may have a product called "Star" that may be relevant;
- A Korean company or product known as "Defector 2" may be relevant;

- A company known as IDS may have products in the field of testing that may be relevant;
- Motorola may have products in the field of testing that may be relevant;
- Syntricity Alcatel may have products in the field of testing that may be relevant;
- ST Microelectronics may have products in the field of testing that may be relevant;
- Pintail may have products in the field of testing that may be relevant;
- Galaxy may have products in the field of testing that may be relevant;
- A company known as I2 may have products in the field of testing that may be relevant;
- Freescale may have products in the field of testing that may be relevant;
- Yield Dynamics may have products in the field of testing that may be relevant;
- Brooks/PRI Automation may have products in the field of testing that may be relevant; and
- Enclosed is a bibliography of potentially relevant references. At this time the referenced documents are unavailable.

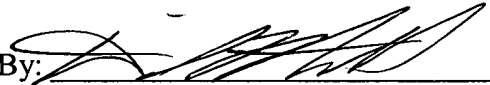
The preceding information and the attached references are cited only in the interest of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art.

Inventor: Buxton, et al.
Serial No.: 10/730,388
Filed: December 07, 2003

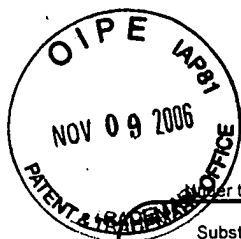
This Information Disclosure Statement (IDS) is being filed under 37 C.F.R. §1.97(c) before the mailing date of any final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution of the application. The IDS is accompanied by the fee set forth in 37 C.F.R. §1.17(p). If there are any questions concerning this IDS, the Examiner is requested to contact the undersigned.

Respectfully submitted,

Date: 05 NOV 2006

By: 
Daniel J. Noblitt
Reg. No. 35,969

NOBLITT & GILMORE, LLC
4800 North Scottsdale Road
Suite 6000
Scottsdale, Arizona 85251
Telephone: 480.994.9859
Facsimile: 480.994.9025



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 5

Complete if Known

Application Number	10/730,388
Filing Date	December 07, 2003
First Named Inventor	Buxton, et al.
Art Unit	2863
Examiner Name	Khuu, Cindy D.
Attorney Docket Number	TAI.0800

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5,240,866	08-31-1993	Friedman et al.	
		US- 5,787,190	07-28-1998	Peng et al.	
		US- 6,477,685	11-05-2002	Lovelace	
		US- 6,516,309	02-04-2003	Eberhart	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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Substitute for form 1449/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/730,388
		Filing Date	December 07, 2003
		First Named Inventor	Buxton, et al.
		Art Unit	2863
		Examiner Name	Khuu, Cindy D.
Sheet 2 of 5	Attorney Docket Number		TAI.0800

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SINGH Et al., Screening for Known Good Die (KGD) Based on Defect Clustering: An Experimental Study, IEEE	
		SINGH, Position Statement: Good Die in Bad Neighborhoods, IEEE	
		MILLER, Position Statement: Good Die in Bad Neighborhoods, IEEE	
		ROEHR, Position Statement: Good Die in Bad Neighborhoods, IEEE	
		MANN, "Leading Edge" of Wafer Level Testing	
		MICHELSON, Statistically Calculating Reject Limits at Parametric Test, IEEE	
		SABADE et al., Immediate Neighbor Difference IDDQ Test (INDIT) for Outlier Detection, Dept. of Computer Science – Texas A&M University	
		HUANG, et al., Image Processing Techniques for Wafer Defect Cluster Identification, IEEE	
		SABADE, et al., Use of Multiple IDDQ Test Metrics for Outlier Identification, Dept. of Computer Science – Texas A&M University	
		CHEN, et al., A Neural-Network Approach to Recognize Defect Spatial Pattern in Semiconductor Fabrication, IEEE	

Examiner Signature		Date Considered	
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		Filing Date	December 07, 2003
		First Named Inventor	Buxton, et al.
		Art Unit	2863
		Examiner Name	Khuu, Cindy D.
Sheet 3 of 5	Attorney Docket Number	TAI.0800	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SAPOZHNIKOVA, et al., The Use of dARTMAP and FUZZY ARTMAP to Solve the Quality Testing Task in Semiconductor Industry, IEEE	
		SIKKA, Automated Feature Detection & Characterization in Sort Wafer Maps,	
		HANSEN, et al., Process Improvement Through the Analysis of Spatially Clustered Defects on Wafer Maps	
		DENBY, et al., A Graphical User Interface for Spatial Data Analysis in Integrated Circuit Manufacturing, AT&T Bell Laboratories	
		FRIEDMAN, et al., Model-Free Estimation of Defect Clustering in Integrated Circuit Fabrication	
		HANSEN, et al., Monitoring Wafer Map Data From Integrated Circuit Fabrication Processes for Spatially Clustered Defects	
		XU, Statistical Problems in Semiconductor Manufacturing	
		THOMAS GNIETING, Measurement Related and Model Parameter Related Statistics	
		Agilent PDQ-WLR(tm) Test and Analysis Software Environment - Product Note, Agilent Technologies, 2000	
		Advance Parametric Tester with HP SPECS, Hewlett-Packard Company, 1999	

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/730,388
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		First Named Inventor	Buxton, et al.
		Art Unit	2863
		Examiner Name	Khuu, Cindy D.
Sheet 4	of 5	Attorney Docket Number TAI.0800	

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		JEFF CHAPPELL, LSI Applies Statistics to Defectivity, 4/14/2003 (http://www.reed-electronics.com/electronicnews/index.asp?layout=articlePrint&articleID=CA292185)	
		ERIK JAN MARINISSEN, et al., Creating Value Through Test, IEEE 2003, 1530-1591	
		RUSSELL B. MILLER, et al., Unit Level Predicted Yield: a Method of Identifying High Defect Density Die at Wafer Sort, IEEE 2001, 1118-1127	
		PHILIPPE LEJEUNE, et al., Optimizing Yield vs. DPPM for Parts Average Testing, www.galaxysemi.com	
		EMILIO MIGUELANEZ, et al., Advanced Automatic Parametric Outlier Detection Technologies for the Production Environment,	
		Guidelines for Part Average Testing, Automotive Electronics Council, AEC-Q001-Rev-C July 18, 2003	
		ZINKE, KEVIN, et al. Yield Enhancement Techniques Using Neural Network Pattern Detection, IEEE 1997, 211-215	
		LEJEUNE, PHILIPPE et al., Minimizing Yield Loss with Parts Average Testing (PAT) and Other DPM Reduction Techniques, Tetradyne Users Group, 2006	
		LEJEUNE, PHILIPPE et al., Minimizing Yield Loss with Parts Average Testing (PAT) and Other DPM Reduction Techniques (PRESENTATION), Tetradyne Users Group, 2006	

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number 10/730,388

Filing Date December 07, 2003

First Named Inventor Buxton, et al.

Art Unit 2863

Examiner Name Khuu, Cindy D.

Attorney Docket Number TAI.0800

Sheet

5

of

5

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Defecter(tm)II - Defect Data Analysis Software, Semicon	
		STANLEY, JAMES, Spatial Outlier Methods for Detecting Defects in Semiconductor Devices at Electrical Probe, Motorola	
		RATCLIFFE, JEFF, Setting a Nearest Neighbor IDDQ Threshold,	
		DAASCH, ROBERT, Variance Reduction Using Wafer Patterns in Iddq Data, Proceeding of International Test Conference October 2000, pp 189-198	
		DAASCH, ROBERT, Neighbor Selection for Variance Reduction in Iddq and Other Parametric Data, ITC International Test Conference, IEEE 2001	

Examiner
Signature

Date

Considered

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